

C L A I M S

Fig. 1. A radio communication apparatus in a radio packet communication system constituted by a plurality of radio stations and having a plurality of radio channels, characterized by comprising:

means for registering<sup>102</sup> a radio channel used by a remote radio station;

means for selecting<sup>101</sup> a radio channel that is registered and used by a destination radio station for a packet to be transmitted; and

means for transmitting/receiving<sup>103</sup> the packet by using the selected radio channel,

wherein if the radio channel used by the destination radio station for the packet to be transmitted is registered, the packet is transmitted by using the radio channel used by the destination radio station.

2. A radio communication apparatus in a radio packet communication system according to claim 1, characterized in that if the radio channel used by the destination radio station for the packet to be transmitted is not registered, the packet is transmitted by using a radio channel used by a self-station.<sup>104</sup>

Fig. 3. A radio communication apparatus in a radio packet communication system according to claim 1 ~~or~~ 2, characterized by further comprising means<sup>402</sup> for, when the

selected radio channel differs from a radio channel which (the self-station) uses for data reception, notifying that the self-station cannot receive any packet, transmitting the packet by using the selected radio channel, and then notifying that the self-station can receive a packet.

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a 4. A radio communication apparatus in a radio packet communication system according to claim 1 ~~or 2~~, characterized by further comprising a self-station channel transmission/reception section and remote channel transmission/reception section as means for transmitting/receiving the packet.

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SD1/SD2

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a 5. A radio communication apparatus in a radio packet communication system according to <sup>CLAIM 1</sup> ~~any one of claims 1 to 4~~, characterized by further comprising means for searching

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for a radio channel used by a destination radio station and registering the found radio channel. <sup>20,</sup>

6. A radio communication apparatus in a radio packet communication system according to claim 5, characterized in that said means for searching for the radio channel and

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registering the found radio channel searches a radio channel by transmitting/receiving a control packet at the time of a radio channel search.

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